Degrees and Other Formal Awards Conferred 1981-82

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INTRODUCTION

"Degrees and Other Formal Awards Conferred, 1981-82" is one in a series of publications containing statistical summaries related to basic education, higher education, and vocational education in Pennsylvania. The data contained in this publication reflects current year figures as well as trends on a variety of selected topics. In many instances, more detailed data is available.

Requests for more detailed data and questions or comments about the data should be addressed to the Pennsylvania Department of Education, Division of Data Services, 333 Market Street, P.O. Box 911, Harrisburg, PA 17108 (Phone 717-787-2644).

Sources: Degrees and Other Formal Awards Conferred Between July 1, 1981 and June 30, 1982 (ED 2300-2.1)
ASB and/or AST Degrees Conferred, 1981-82 (DEAS-1043, Part B)

TABLE 1

ASSOCIATE AND HIGHER DEGREES CONFERRED BY LEVEL
OF PROGRAM, 1972-73 THROUGH 1981-82

	Total Degrees	Associate Degrees	Bachelor's Degrees	First-Professional Degrees	Master's Degrees	Doctor's Degrees
1972-73	89 446	14 213	56 379	3 137	13 889	1 828
1973-74	91 210	14 681	57 015	3 248	14 604	1 662
1974-75	90 158	14 542	55 689	3 327	14 827	1 773
1975-76	89 367	14 918	54 646	3 510	14 481	1 812
1976-77	89 265	16 086	53 835	3 524	14 189	1 631
1977-78	90 613	17 690	53 697	3 640	13 935	1 651
1978-79	90 868	17 317	54 338	3 779	13 775	1 659
1979-80	90 905	17 107	55 121	3 762	13 246	1 669
1980-81	91 352	17 949	54 589	3 791	13 356	1 667
1981-82	93 955	19 250	55 600	3 674	13 619	1 812

The number of associate and higher degrees conferred in 1981-82 surpassed the decade high of 1980-81 by 2.8 percent. Of all levels, associates accounted for both the largest numeric and percentage increase over 1980-81. Only the first-professional level decreased from 1980-81 to 1981-82 (3.1 percent).

While total degrees have increased by 5.0 percent over the decade, only two levels were responsible for this net gain. Specifically, associate degrees increased by 5,037 (up 35.4 percent) and first-professional degrees increased by 537 (up 17.1 percent).

FIGURE 1
DEGREES CONFERRED BY LEVEL OF PROGRAM, 1972-73

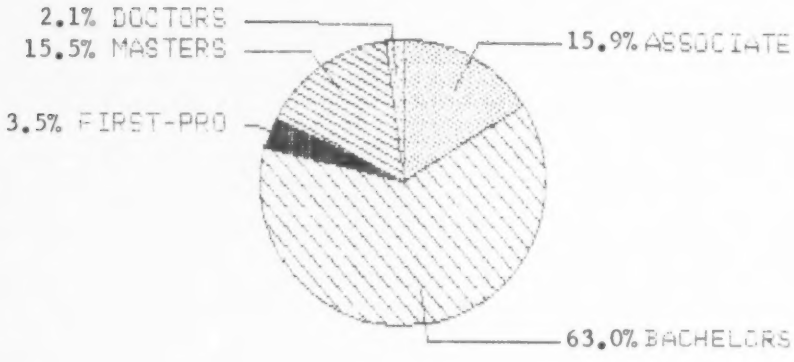

FIGURE 2
DEGREES CONFERRED BY LEVEL OF PROGRAM, 1981-82

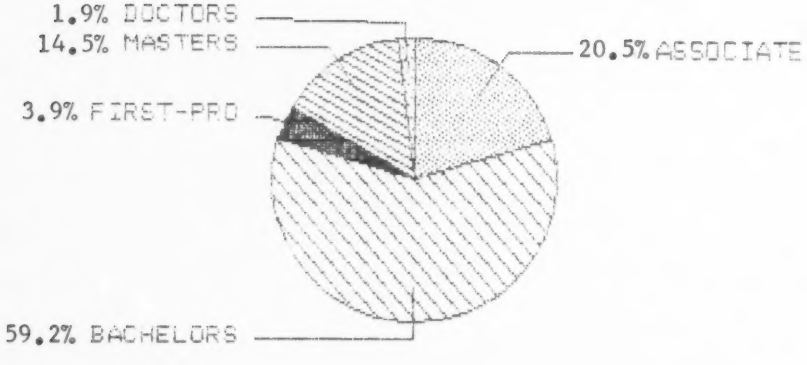

TABLE 2

ASSOCIATE AND HIGHER DEGREES CONFERRED
BY SEX, 1972-73 THROUGH 1981-82

	Total	Men	Women
1972-73	89 446	53 099	36 347
1973-74	91 210	53 538	37 672
1974-75	90 158	51 393	38 765
1975-76	89 367	50 305	39 062
1976-77	89 265	49 426	39 839
1977-78	90 613	48 802	41 811
1978-79	90 868	47 634	43 234
1979-80	90 905	47 163	43 742
1980-81	91 352	46 451	44 901
1981-82	93 955	47 417	46 538

As expected, more women received degrees in 1981-82 than in 1980-81. This is supported by the continued influx of women enrolled in associate and higher level programs. For fall 1981 women comprised 50.8 percent of all enrollments. Likewise, women comprised 49.5 percent of all graduates for the 1981-82 academic year. The percent of graduates that are women increased despite the increase in the number of men receiving degrees. Prior to 1981-82, the number of men decreased each year after 1973-74.

FIGURE 3
ASSOCIATE AND HIGHER DEGREES CONFERRED
BY SEX, 1972-73 THROUGH 1981-82

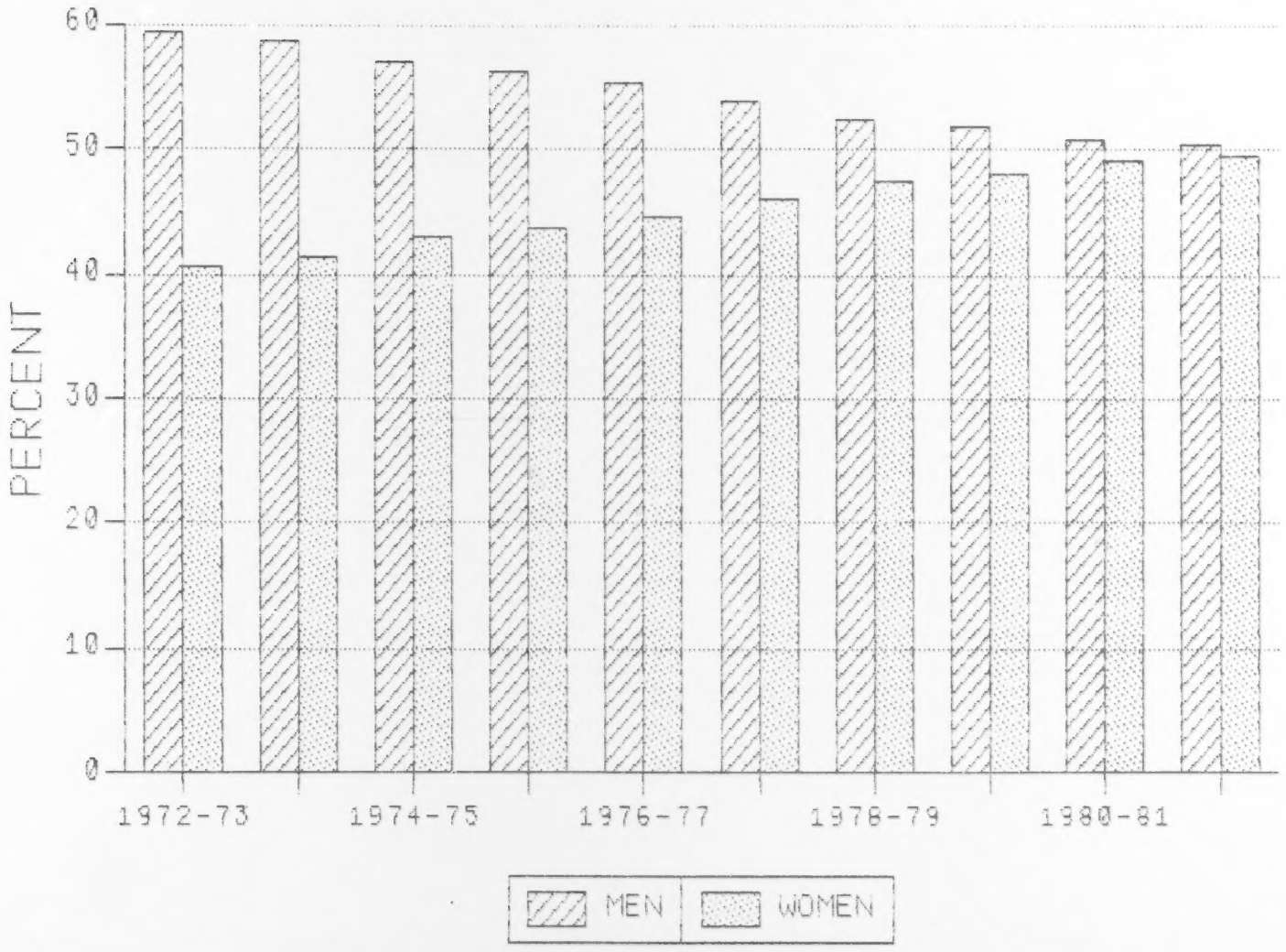

TABLE 3

BACHELOR'S DEGREES CONFERRED IN SELECTED MAJOR FIELDS OF STUDY, 1972-73 THROUGH 1981-82

	Business and Management	Computer and Information Systems	Education	Engineering	Health Professions	Social Sciences
1972-73	7 131	206	13 045	3 104	2 043	9 335
1973-74	7 499	235	12 883	3 000	2 262	9 185
1974-75	7 633	262	11 537	2 782	2 824	8 455
1975-76	8 457	260	10 633	2 675	2 890	7 601
1976-77	9 222	307	9 431	3 001	3 176	7 125
1977-78	9 735	371	8 548	3 415	3 196	6 759
1978-79	10 753	513	7 732	4 063	3 476	6 508
1979-80	11 466	698	6 927	4 376	3 602	6 312
1980-81	11 779	1 007	5 989	4 748	3 822	5 905
1981-82	12 678	1 489	5 543	4 986	3 923	6 007

The above table illustrates the dynamic changes occurring in the academic goals of students over the past ten years. Most major fields of study at the bachelor's degree level have remained relatively stable. However, continual growth in the business and management area maintains its position as the largest major field of study.

Although smaller numerically, the number of degrees in computer and information systems more than doubled since 1979-80.

On the negative side, the major field of education continued its downward trend. The rate of decline, however, slowed to 7.4 percent after being above ten percent for the past two years.

FIGURE 4
BACHELOR'S DEGREES CONFERRED IN SIX MAJOR FIELDS OF STUDY, 1972-73 THROUGH 1981-82

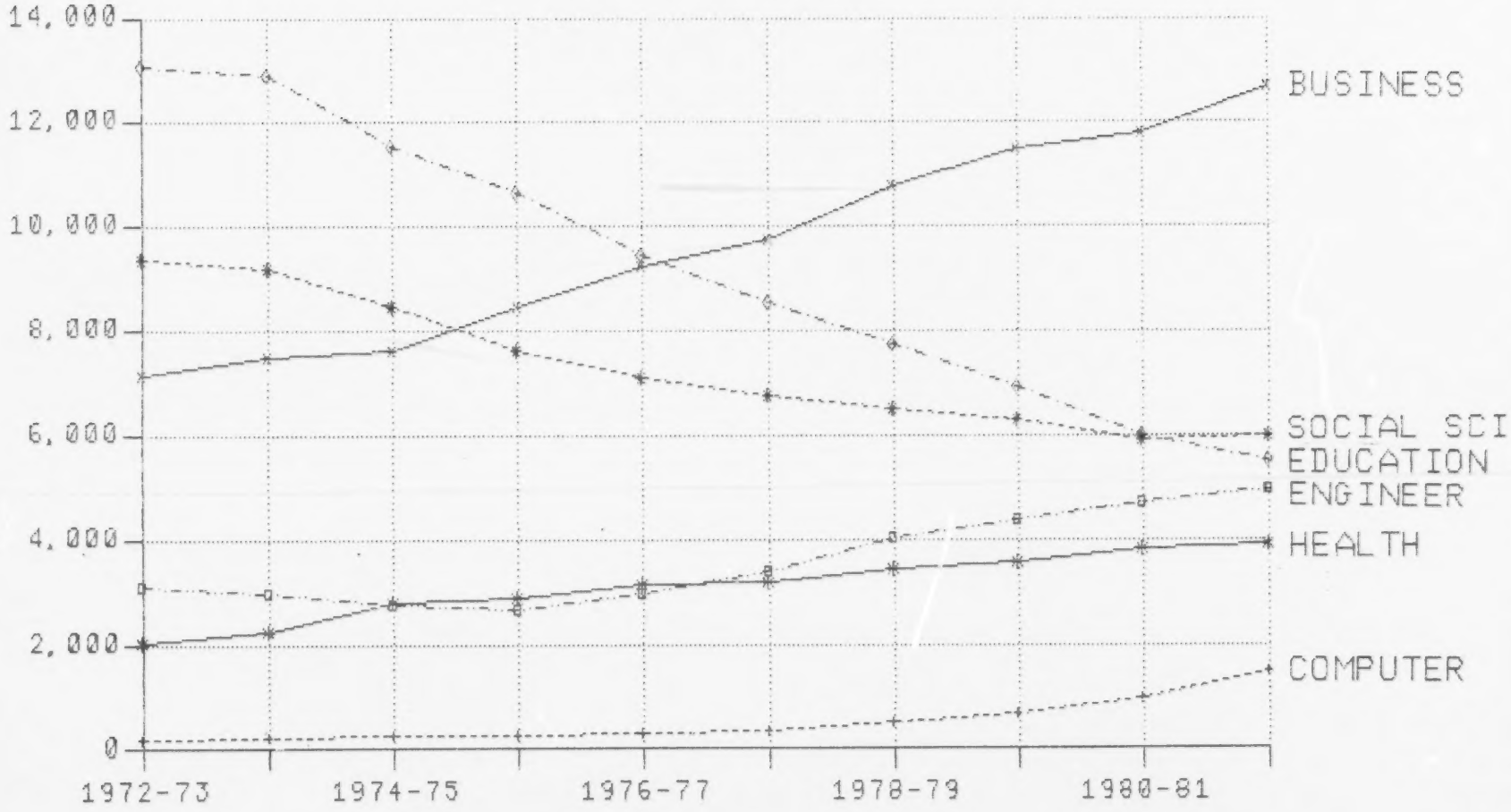

TABLE 4

ASSOCIATE AND HIGHER DEGREES CONFERRED BY INSTITUTIONAL CATEGORY AND LEVEL OF DEGREE, 1972-73 THROUGH 1981-82

	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
TOTAL, ALL INSTITUTIONS	89 446	91 210	90 158	89 367	89 265	90 613	90 868	90 905	91 352	93 955
Associate Degrees	14 213	14 681	14 542	14 918	16 086	17 690	17 317	17 107	17 949	19 250
Bachelor's Degrees	56 379	57 015	55 689	54 646	53 835	53 697	54 338	55 121	54 589	55 600
First-Professional Degrees	3 137	3 248	3 327	3 510	3 524	3 640	3 779	3 762	3 791	3 674
Master's Degrees	13 889	14 604	14 827	14 481	14 189	13 935	13 775	13 246	13 356	13 619
Doctor's Degrees	1 828	1 662	1 773	1 812	1 631	1 651	1 659	1 669	1 667	1 812
STATE COLLEGES AND UNIVERSITY	17 265	18 575	17 820	16 460	16 285	15 549	15 342	15 158	14 502	14 494
Associate Degrees	24	21	37	52	105	113	131	120	136	164
Bachelor's Degrees	14 549	15 151	14 204	13 302	13 016	12 705	12 572	12 651	12 020	12 017
First-Professional Degrees	-	-	-	-	-	-	-	-	-	-
Master's Degrees	2 688	3 397	3 575	3 101	3 162	2 730	2 634	2 369	2 325	2 296
Doctor's Degrees	4	6	4	5	2	1	5	18	21	17
STATE-RELATED COMMONWEALTH UNIVERSITIES	24 280	23 609	23 467	24 116	23 926	24 410	24 445	23 812	23 662	24 224
Associate Degrees	1 404	1 350	1 395	1 577	1 701	1 804	1 800	1 674	1 844	2 132
Bachelor's Degrees	15 298	15 072	14 966	15 276	15 270	15 394	15 463	15 290	14 758	15 017
First-Professional Degrees	983	1 031	1 111	1 137	1 148	1 196	1 240	1 183	1 214	1 157
Master's Degrees	5 529	5 207	4 918	5 067	4 815	4 997	4 962	4 646	4 855	4 851
Doctor's Degrees	1 066	949	1 077	1 059	992	1 019	980	1 019	991	1 067
COMMUNITY COLLEGES	6 908	7 466	7 554	7 862	8 189	8 568	7 962	7 905	7 891	8 163
Associate Degrees	6 908	7 466	7 554	7 862	8 189	8 568	7 962	7 905	7 891	8 163
Bachelor's Degrees	-	-	-	-	-	-	-	-	-	-
First-Professional Degrees	-	-	-	-	-	-	-	-	-	-
Master's Degrees	-	-	-	-	-	-	-	-	-	-
Doctor's Degrees	-	-	-	-	-	-	-	-	-	-
PRIVATE STATE-AIDED INSTITUTIONS	8 059	8 264	8 465	8 589	8 552	8 965	8 957	9 229	9 424	9 812
Associate Degrees	119	150	195	208	279	339	293	262	278	277
Bachelor's Degrees	4 151	4 154	4 366	4 212	4 166	4 343	4 436	4 677	4 830	5 060
First-Professional Degrees	1 235	1 284	1 355	1 461	1 510	1 534	1 577	1 602	1 612	1 573
Master's Degrees	2 096	2 222	2 142	2 248	2 216	2 365	2 257	2 310	2 315	2 430
Doctor's Degrees	458	454	407	460	381	384	394	378	389	472
PRIVATE COLLEGES AND UNIVERSITIES	27 920	28 384	28 342	27 861	27 209	27 039	27 727	28 219	28 659	29 526
Associate Degrees	1 231	1 221	1 350	1 281	1 204	1 307	1 275	1 137	1 157	1 308
Bachelor's Degrees	22 336	22 617	22 137	21 833	21 368	21 225	21 842	22 491	22 963	23 490
First-Professional Degrees	551	584	560	552	544	575	598	619	647	629
Master's Degrees	3 502	3 711	4 036	3 946	3 881	3 726	3 788	3 764	3 670	3 890
Doctor's Degrees	300	251	259	249	212	206	224	208	222	209

TABLE 4

ASSOCIATE AND HIGHER DEGREES CONFERRED BY INSTITUTIONAL CATEGORY AND LEVEL OF DEGREE, 1972-73 THROUGH 1981-82--Concluded

	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
THEOLOGICAL SEMINARIES	487	439	499	541	496	523	579	573	571	530
Associate Degrees	-	-	-	-	-	-	-	-	-	-
Bachelor's Degrees	45	21	16	23	15	30	25	12	18	16
First-Professional Degrees	368	349	301	360	322	335	364	358	318	315
Master's Degrees	74	67	156	119	115	117	134	157	191	152
Doctor's Degrees	-	2	26	39	44	41	56	46	44	47
PRIVATE JUNIOR COLLEGES	1 521	1 374	1 189	1 213	1 438	1 686	1 614	1 573	1 571	1 482
Associate Degrees	1 521	1 374	1 189	1 213	1 438	1 686	1 614	1 573	1 571	1 482
Bachelor's Degrees	-	-	-	-	-	-	-	-	-	-
First-Professional Degrees	-	-	-	-	-	-	-	-	-	-
Master's Degrees	-	-	-	-	-	-	-	-	-	-
Doctor's Degrees	-	-	-	-	-	-	-	-	-	-
PROPRIETARY SCHOOLS[1/]	3 006	3 099	2 822	2 725	3 139	3 839	4 209	4 374	4 994	5 656
Associate Degrees	3 006	3 099	2 822	2 725	3 139	3 839	4 209	4 374	4 994	5 656
Bachelor's Degrees	-	-	-	-	-	-	-	-	-	-
First-Professional Degrees	-	-	-	-	-	-	-	-	-	-
Master's Degrees	-	-	-	-	-	-	-	-	-	-
Doctor's Degrees	-	-	-	-	-	-	-	-	-	-
STATE SCHOOL OF TECHNOLOGY[1/]	-	-	-	-	31	34	33	62	78	68
Associate Degrees	-	-	-	-	31	34	33	62	78	68
Bachelor's Degrees	-	-	-	-	-	-	-	-	-	-
First-Professional Degrees	-	-	-	-	-	-	-	-	-	-
Master's Degrees	-	-	-	-	-	-	-	-	-	-
Doctor's Degrees	-	-	-	-	-	-	-	-	-	-

1/ Includes degrees conferred in associate in specialized business (ASB) and associate in specialized technology (AST) programs only.

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
TOTAL DEGREES, ALL FIELDS	38 431	36 274	27 732	27 868	2 673	1 001	6 861	6 758	1 165	647
AGRICULTURE AND NATURAL RESOURCES--Total	638	349	580	331	-	-	46	15	12	3
Agriculture, general	31	25	31	25	-	-	-	-	-	-
Agronomy	68	10	58	9	-	-	8	1	2	-
Soils science	1	-	-	-	-	-	-	-	1	-
Animal science	72	100	63	95	-	-	8	4	1	1
Dairy science	32	11	31	10	-	-	-	1	1	-
Poultry science	3	1	2	1	-	-	1	-	-	-
Fish, game, and wildlife management	9	1	1	-	-	-	8	1	-	-
Horticulture	74	64	65	60	-	-	8	4	1	-
Ornamental horticulture	60	33	60	33	-	-	-	-	-	-
Agricultural economics	9	11	5	9	-	-	1	2	3	-
Agricultural business	52	9	52	9	-	-	-	-	-	-
Food science and technology	42	31	36	28	-	-	5	1	1	2
Forestry	48	13	48	13	-	-	-	-	-	-
Natural resources management	93	39	84	38	-	-	7	1	2	-
Agricultural mechanization	20	-	20	-	-	-	-	-	-	-
Forest products	24	1	24	1	-	-	-	-	-	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN--Total	289	176	157	113	-	-	123	60	9	3
Environmental design, general	2	6	2	6	-	-	-	-	-	-
Architecture	176	59	112	35	-	-	59	22	5	2
Interior design	11	57	7	52	-	-	4	5	-	-
Landscape architecture	39	26	32	17	-	-	7	9	-	-
Urban architecture	6	2	-	-	-	-	6	2	-	-
City, community, and regional planning	55	26	4	3	-	-	47	22	4	1
AREA STUDIES--Total	69	104	50	82	-	-	14	20	5	2
East Asian studies	8	15	3	11	-	-	3	3	2	1
South Asian studies	2	2	-	-	-	-	-	2	2	-
African studies	1	5	1	5	-	-	-	-	-	-
Latin American studies	-	1	-	1	-	-	-	-	-	-
European studies, general	-	1	-	1	-	-	-	-	-	-
West European studies	1	-	1	-	-	-	-	-	-	-
American studies	39	61	29	45	-	-	9	15	1	1
Soviet area studies	1	1	1	1	-	-	-	-	-	-
International studies	14	18	14	18	-	-	-	-	-	-
Ancient near eastern studies/egyptology	3	-	1	-	-	-	2	-	-	-
BIOLOGICAL SCIENCES--Total	1 646	1 368	1 399	1 215	-	-	142	111	105	42
Biology, general	1 340	1 126	1 230	1 057	-	-	89	60	21	9
Botany, general	1	2	-	-	-	-	-	1	1	1
Plant pathology	8	3	-	-	-	-	4	2	4	1
Zoology, general	1	1	-	-	-	-	-	1	1	-
Pathology, human and animal	7	10	-	-	-	-	3	9	4	1
Pharmacology, human and animal	13	5	-	-	-	-	4	3	9	2
Physiology, human and animal	21	1	-	-	-	-	5	-	16	1
Microbiology	54	97	39	72	-	-	5	15	10	10
Anatomy	10	6	1	-	-	-	1	-	8	6
Biochemistry	95	60	72	49	-	-	11	7	12	4
Biophysics	17	7	13	3	-	-	1	3	3	1
Molecular biology	12	6	4	1	-	-	-	1	8	4
Cell biology	4	8	4	8	-	-	-	-	-	-
Marine biology	2	2	2	2	-	-	-	-	-	-
Biometrics and Biostatistics	1	-	-	-	-	-	1	-	-	-
Ecology	11	5	6	5	-	-	4	-	1	-
Entomology	13	5	7	2	-	-	3	2	3	1
Genetics	1	1	-	-	-	-	-	1	1	-
Neurosciences	2	1	2	1	-	-	-	-	-	-
Toxicology	8	6	3	2	-	-	5	4	-	-
Parisitology	2	1	-	-	-	-	-	-	2	1
Animal behavior	3	4	3	4	-	-	-	-	-	-
Plant science	6	5	6	5	-	-	-	-	-	-
Veterinary science	3	2	-	-	-	-	3	2	-	-
Biological science	10	4	7	4	-	-	2	-	1	-
Immunology	1	-	-	-	-	-	1	-	-	-
BUSINESS AND MANAGEMENT--Total	10 391	5 513	7 974	4 704	-	-	2 370	797	47	12
Business and commerce, general	2 199	966	1 511	745	-	-	683	218	5	3
Accounting	2 201	1 317	2 129	1 285	-	-	71	32	1	-
Business statistics	11	7	3	6	-	-	4	-	4	1
Banking and finance	854	272	445	202	-	-	404	70	5	-
Business management and administration	3 269	1 629	2 379	1 296	-	-	871	331	19	2
Operations research	51	15	30	11	-	-	18	4	3	-

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82--Continued

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
BUSINESS AND MANAGEMENT--Concluded										
Hotel and restaurant management	13	11	13	11	-	-	-	-	-	-
Marketing and purchasing	871	690	803	650	-	-	68	40	-	-
Transportation and public utilities	145	66	144	65	-	-	1	1	-	-
Real estate	19	7	17	5	-	-	2	2	-	-
Insurance	38	21	29	15	-	-	6	6	3	-
International business	23	10	12	3	-	-	11	7	-	-
Secretarial studies	-	31	-	31	-	-	-	-	-	-
Personnel management	60	30	58	30	-	-	2	-	-	-
Labor and industrial relations	161	108	71	58	-	-	90	49	-	1
Business economics	108	37	90	27	-	-	14	8	4	2
Quantitative business analysis	33	25	33	25	-	-	-	-	-	-
Industrial administration/management	94	26	5	-	-	-	86	23	3	3
Food marketing and purchasing	56	30	52	30	-	-	4	-	-	-
Textile management and marketing	38	107	38	107	-	-	-	-	-	-
Administration/management s[illegible]	99	66	96	63	-	-	3	3	-	-
Actuarial sciences	4	-	4	-	-	-	-	-	-	-
Tax accounting	32	3	-	-	-	-	32	3	-	-
Office management	12	38	12	38	-	-	-	-	-	-
Music merchandising	-	1	-	1	-	-	-	-	-	-
COMMUNICATIONS--Total	783	1 017	727	984	-	-	55	31	1	2
Communications, general	295	427	263	406	-	-	31	19	1	2
Journalism	226	321	214	312	-	-	12	9	-	-
Radio/television	133	105	129	105	-	-	4	-	-	-
Advertising	43	101	43	101	-	-	-	-	-	-
Communication media	86	63	78	60	-	-	8	3	-	-
COMPUTER AND INFORMATION SCIENCES--Total	1 239	621	983	506	-	-	226	113	30	2
Computer and information sciences, general	1 031	423	825	364	-	-	181	58	25	1
Information sciences and systems	150	156	100	100	-	-	45	55	5	1
Data processing	20	7	20	7	-	-	-	-	-	-
Computer programming	2	5	2	5	-	-	-	-	-	-
Systems analysis	36	30	36	30	-	-	-	-	-	-
EDUCATION--Total	2 505	7 438	1 219	4 324	-	-	1 013	2 863	273	251
Education, general	119	401	6	14	-	-	106	378	7	9
Elementary education, general	312	2 019	230	1 625	-	-	75	384	7	10
Secondary education, general	88	119	53	57	-	-	26	54	9	8
Junior high school education	-	1	-	-	-	-	-	1	-	-
Higher education, general	31	25	-	-	-	-	7	5	24	20
Junior and community college education	-	3	-	-	-	-	-	3	-	-
Adult and continuing education	6	17	-	-	-	-	4	13	2	4
Special education, general (mentally/ physically handicapped)	184	1 112	99	725	-	-	81	372	4	15
Education of the mentally retarded	17	142	11	116	-	-	6	26	-	-
Education of the gifted	-	1	-	-	-	-	-	1	-	-
Education of the deaf	2	14	-	1	-	-	2	13	-	-
Education of the visually handicapped	2	26	2	26	-	-	-	-	-	-
Speech correction	19	371	14	251	-	-	5	119	-	1
Special learning disabilities	8	23	-	-	-	-	5	23	3	-
Education of the physically handicapped	3	14	1	12	-	-	2	2	-	-
Education of the multiple handicapped	3	17	-	-	-	-	3	17	-	-
Social foundations	10	11	-	-	-	-	2	5	8	6
Educational psychology	30	67	-	-	-	-	9	51	21	16
Pre-elementary education	1	58	1	56	-	-	-	2	-	-
Educational statistics and research	5	7	-	-	-	-	4	6	1	1
Educational testing, evaluation, and measurement	3	5	-	-	-	-	1	3	2	2
Student personnel (elementary and secondary school guidance)	248	427	-	-	-	-	219	396	29	31
Educational administration (principal and superintendent)	145	93	-	1	-	-	97	74	48	18
Educational supervision	1	1	-	-	-	-	1	1	-	-
Curriculum and instruction	44	80	-	-	-	-	24	43	20	37
Reading education	53	406	-	-	-	-	45	385	8	21
Art education	37	184	23	136	-	-	10	42	4	6
Music education	191	281	168	243	-	-	19	37	4	1
Mathematics education	9	16	2	2	-	-	5	14	2	-
Science education	13	7	-	-	-	-	11	6	2	1
Physical education	397	472	304	390	-	-	78	78	15	4
Health education	41	77	22	33	-	-	15	39	4	5
Business, commerce, and distributive education	33	154	19	108	-	-	12	44	2	2
Industrial arts, vocational, and technical education	241	51	181	20	-	-	45	21	15	10
Social studies	61	70	40	30	-	-	20	40	1	-

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82--Continued

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
EDUCATION--Concluded										
Early childhood education	8	252	5	208	-	-	3	41	-	3
School psychology	22	35	-	-	-	-	17	33	5	2
Environmental education	-	3	-	-	-	-	-	3	-	-
Rehabilitation education	13	38	13	38	-	-	-	-	-	-
Extension education	4	-	-	-	-	-	4	-	-	-
Comparative education	2	3	-	-	-	-	2	3	-	-
Instructional media	35	36	-	-	-	-	29	33	6	3
Library science education	1	21	1	21	-	-	-	-	-	-
Dental hygiene	2	48	2	48	-	-	-	-	-	-
Urban education	9	18	-	-	-	-	4	14	5	4
Health, physical, and recreational education (athletic coach)	2	13	1	2	-	-	1	11	-	-
International education	11	4	-	-	-	-	2	2	9	2
Social restoration	3	2	-	-	-	-	2	1	1	1
Agricultural education	35	10	20	10	-	-	10	-	5	-
Home economics education	-	119	-	87	-	-	-	24	-	8
Nursing education	1	64	1	64	-	-	-	-	-	-
ENGINEERING--Total	5 291	817	4 275	711	-	-	857	99	159	7
Engineering, general	125	36	110	36	-	-	15	-	-	-
Aerospace, aeronautical, and astronautical engineering	67	8	60	6	-	-	7	2	-	-
Agricultural engineering	32	3	28	3	-	-	1	-	3	-
Architectural engineering	85	16	79	16	-	-	6	-	-	-
Bioengineering and biomedical engineering	60	19	34	14	-	-	20	4	6	1
Chemical engineering	604	187	503	163	-	-	76	22	25	2
Petroleum engineering	75	12	65	11	-	-	10	1	-	-
Civil, construction, and transportation engineering	658	97	531	83	-	-	111	14	16	-
Electrical, electronics, and communications engineering	1 194	101	990	87	-	-	171	12	33	2
Mechanical engineering	985	88	837	83	-	-	131	5	17	-
Industrial and management engineering	354	112	241	97	-	-	107	14	6	1
Metallurgical engineering	138	21	89	19	-	-	35	2	14	-
Materials engineering	43	10	28	9	-	-	11	1	4	-
Ceramic engineering	28	2	19	2	-	-	4	-	5	-
Textile engineering	20	8	20	8	-	-	-	-	-	-
Mining and mineral engineering	128	7	111	7	-	-	14	-	3	-
Engineering physics	10	3	10	3	-	-	-	-	-	-
Nuclear engineering	54	5	34	4	-	-	14	1	6	-
Engineering mechanics	6	1	2	-	-	-	3	1	1	-
Environmental and sanitary engineering	73	13	29	5	-	-	35	7	9	1
Engineering technologies	374	37	364	37	-	-	6	-	4	-
Engineering science	64	5	32	3	-	-	32	2	-	-
Civil/urban engineering	5	-	-	-	-	-	5	-	-	-
Systems engineering	37	10	9	1	-	-	23	9	5	-
Engineering/public affairs	2	-	-	-	-	-	-	-	2	-
Industrial technologies	14	1	14	1	-	-	-	-	-	-
Energy technology	38	5	18	3	-	-	20	2	-	-
Graphic communications technology	3	1	3	1	-	-	-	-	-	-
Industrial management technology	9	9	9	9	-	-	-	-	-	-
Manufacturing technology	4	-	4	-	-	-	-	-	-	-
Petroleum technology	2	-	2	-	-	-	-	-	-	-
FINE AND APPLIED ARTS--Total	798	1 481	674	1 313	-	-	117	156	7	12
Fine arts, general	85	171	78	158	-	-	7	13	-	-
Art	198	446	179	417	-	-	19	29	-	-
Art history and appreciation	21	111	20	78	-	-	-	26	1	7
Music (performing, composition, theory)	145	138	102	101	-	-	40	35	3	2
Music (liberal arts program)	60	64	49	57	-	-	9	6	2	1
Music history and appreciation	14	3	8	2	-	-	5	1	1	-
Dramatic arts	131	141	104	117	-	-	27	22	-	2
Dance	5	49	4	39	-	-	1	10	-	-
Applied design	52	233	46	224	-	-	6	9	-	-
Cinematography	12	5	12	5	-	-	-	-	-	-
Photography	11	33	10	33	-	-	1	-	-	-
Art and design	4	3	4	3	-	-	-	-	-	-
Fine and applied arts	54	66	54	66	-	-	-	-	-	-
General arts	2	-	2	-	-	-	-	-	-	-
Opera	2	2	-	-	-	-	2	2	-	-
Printmaking	2	16	2	13	-	-	-	3	-	-
FOREIGN LANGUAGES--Total	151	513	119	432	-	-	24	64	8	17
Foreign languages, general	10	16	8	13	-	-	-	3	2	-
French	40	197	26	178	-	-	13	16	1	3
German	25	85	20	63	-	-	4	17	1	5
Italian	3	13	2	10	-	-	1	3	-	-

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82--Continued

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
FOREIGN LANGUAGES--Concluded										
Spanish	52	161	43	131	-	-	6	23	3	7
Russian	11	22	11	20	-	-	-	1	-	1
Chinese	-	1	-	1	-	-	-	-	-	-
Japanese	1	4	1	4	-	-	-	-	-	-
Latin	3	5	3	5	-	-	-	-	-	-
Greek, classical	5	6	5	5	-	-	-	-	-	-
Slavic languages	1	2	-	1	-	-	-	-	1	1
Classical languages	-	1	-	1	-	-	-	-	-	-
HEALTH PROFESSIONS--Total	2 407	4 433	639	3 284	1 553	504	167	605	48	40
Health professions, general	25	84	14	49	-	-	11	35	-	-
Hospital and health care administration	87	145	54	97	-	-	32	48	1	-
Nursing	83	2 390	76	2 093	-	-	7	290	-	7
Dentistry, D.D.S. or D.M.D. degree	329	77	-	-	329	77	-	-	-	-
Dental specialties	14	8	-	-	-	-	11	6	3	2
Medicine, M.D. degree	787	299	-	-	787	299	-	-	-	-
Medical specialties	33	12	-	-	-	-	11	1	22	11
Occupational therapy	4	66	4	66	-	-	-	-	-	-
Optometry	108	28	-	-	108	28	-	-	-	-
Osteopathic medicine, D.O. degree	165	36	-	-	165	36	-	-	-	-
Pharmacy	326	252	287	234	14	6	19	11	6	1
Physical therapy	30	63	29	63	-	-	1	-	-	-
Dental hygiene	-	29	-	29	-	-	-	-	-	-
Public health	70	114	11	23	-	-	49	77	10	14
Medical record librarianship	2	47	2	47	-	-	-	-	-	-
Podiatry or podiatric medicine	99	10	-	-	99	10	-	-	-	-
Veterinary medicine, D.V.M. degree	51	48	-	-	51	48	-	-	-	-
Veterinary medicine specialties	1	1	-	-	-	-	-	-	1	1
Speech pathology and audiology	5	155	1	45	-	-	4	106	-	4
Clinical social work	16	12	-	-	-	-	16	12	-	-
Medical laboratory technologies	44	262	44	260	-	-	-	2	-	-
Radiologic technologies	5	20	4	20	-	-	1	-	-	-
Anesthesiology	8	18	8	18	-	-	-	-	-	-
Inhalation therapy	7	15	7	15	-	-	-	-	-	-
Environmental health	6	11	6	11	-	-	-	-	-	-
Music therapy	4	25	4	25	-	-	-	-	-	-
Child care/development	4	78	3	69	-	-	1	9	-	-
Health records administration	4	14	4	14	-	-	-	-	-	-
Art therapy	1	2	1	-	-	-	-	2	-	-
Laboratory animal medicine	2	1	-	-	-	-	2	1	-	-
Mental health technologics	4	28	4	28	-	-	-	-	-	-
Pre-medicine degree program	28	21	28	21	-	-	-	-	-	-
Biological chemistry	32	13	26	10	-	-	1	3	5	-
Medical assisting technologies	20	43	20	43	-	-	-	-	-	-
Clinical chemistry	3	6	2	4	-	-	1	2	-	-
HOME ECONOMICS--Total	146	955	131	883	-	-	8	62	7	10
Home economics, general	2	131	2	128	-	-	-	3	-	-
Clothing and textiles	2	102	2	100	-	-	-	2	-	-
Consumer economics and home management	-	29	-	29	-	-	-	-	-	-
Family relations and child development	28	287	18	254	-	-	4	24	6	9
Foods and nutrition	28	323	24	290	-	-	3	32	1	1
Institutional management and cafeteria management	85	82	85	82	-	-	-	-	-	-
Gerontology	1	1	-	-	-	-	1	1	-	-
LAW--Total	921	475	21	18	808	435	92	22	-	-
Law, general	909	464	12	8	808	435	89	21	-	-
Comparative law	3	1	-	-	-	-	3	1	-	-
Business law	9	10	9	10	-	-	-	-	-	-
LETTERS--Total	1 266	1 855	1 077	1 571	-	-	138	225	51	59
English, general	463	906	383	780	-	-	61	99	19	27
Literature, English	74	145	71	137	-	-	3	6	-	2
Comparative literature	2	6	2	4	-	-	-	2	-	-
Classics	12	17	11	12	-	-	1	4	-	1
Linguistics	18	31	8	14	-	-	5	11	5	6
Speech, debate, and forensic science	246	379	238	352	-	-	4	18	4	9
Creative writing	37	58	37	58	-	-	-	-	-	-
Teaching of English as a foreign language	1	1	-	-	-	-	1	1	-	-
Philosophy	187	72	164	59	-	-	15	6	8	7
Religious studies	193	197	140	126	-	-	43	67	10	4
Religion/Philosophy	1	-	1	-	-	-	-	-	-	-
Folklore	6	11	-	1	-	-	1	7	5	3

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82--Continued

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
LETTERS--Concluded										
Classical studies	1	2	1	2	-	-	-	-	-	-
Bible studies	5	3	4	3	-	-	1	-	-	-
Rabbinics and rabbinical literature	2	5	1	4	-	-	1	1	-	-
Technical writing/editing	18	22	16	19	-	-	2	3	-	-
LIBRARY SCIENCE--Total	58	276	2	25	-	-	47	238	9	13
Library science, general	58	276	2	25	-	-	47	238	9	13
MATHEMATICS--Total	451	404	359	351	-	-	74	49	18	4
Mathematics, general	377	360	306	316	-	-	57	42	14	2
Statistics, mathematical and theoretical	24	11	5	4	-	-	15	5	4	2
Applied mathematics	50	33	48	31	-	-	2	2	-	-
PHYSICAL SCIENCES--Total	1 679	633	1 331	544	-	-	208	57	140	32
Physical sciences, general	80	44	78	42	-	-	2	2	-	-
Physics, general	325	39	205	22	-	-	63	12	57	5
Chemistry, general	680	364	553	313	-	-	69	30	58	21
Physical chemistry	1	-	-	-	-	-	1	-	-	-
Pharmaceutical chemistry	2	2	-	-	-	-	1	1	1	1
Astronomy	13	4	11	3	-	-	1	-	1	1
Atmospheric sciences and meteorology	71	13	60	12	-	-	10	1	1	-
Geology	254	87	212	79	-	-	37	5	5	3
Geochemistry	1	1	1	1	-	-	-	-	-	-
Geophysics and seismology	10	-	2	-	-	-	6	-	2	-
Earth sciences, general (earth and space science)	85	37	78	35	-	-	5	2	2	-
Metallurgy	27	5	21	5	-	-	3	-	3	-
Electronic physics	2	-	2	-	-	-	-	-	-	-
Mineral economics	40	11	32	9	-	-	4	2	4	-
Science	71	22	71	22	-	-	-	-	-	-
Textile chemistry	5	1	5	1	-	-	-	-	-	-
Crystallography	2	-	-	-	-	-	-	-	2	-
Polymer science	6	-	-	-	-	-	4	-	2	-
Geochemistry and mineralogy	4	3	-	-	-	-	2	2	2	1
PSYCHOLOGY--Total	957	1 828	764	1 571	-	-	151	215	42	42
Psychology, general	896	1 726	749	1 540	-	-	120	160	27	26
Experimental psychology	7	7	1	2	-	-	5	4	1	1
Clinical psychology	9	10	-	-	-	-	1	2	8	8
Psychology for counseling	29	59	6	12	-	-	17	41	6	6
Social psychology	15	21	8	13	-	-	7	8	-	-
Statistics in psychology	1	-	-	-	-	-	1	-	-	-
Industrial psychology	-	1	-	1	-	-	-	-	-	-
Developmental psychology	-	1	-	-	-	-	-	-	-	1
Physiological psychology	-	3	-	3	-	-	-	-	-	-
PUBLIC AFFAIRS AND SERVICES--Total	1 567	2 058	1 030	1 358	-	-	501	679	36	21
Community services, general	25	30	13	11	-	-	10	16	2	3
Public administration	312	199	73	66	-	-	227	131	12	2
Parks and recreation management	151	239	121	210	-	-	27	20	3	-
Social work and helping services	253	1 080	109	616	-	-	136	450	8	14
Law enforcement and corrections	581	355	556	344	-	-	25	11	-	-
International public service	52	39	18	19	-	-	34	20	-	-
Safety management	63	9	63	9	-	-	-	-	-	-
Public service	17	4	17	4	-	-	-	-	-	-
Administration of justice	42	51	42	51	-	-	-	-	-	-
Public policy	46	28	-	-	-	-	42	28	4	-
Peace science	1	-	-	-	-	-	-	-	1	-
Urban/public affairs	6	1	-	-	-	-	-	-	6	1
Man-environment relations	18	23	18	19	-	-	-	3	-	1
SOCIAL SCIENCES--Total	3 721	2 881	3 342	2 665	-	-	278	147	101	69
Social sciences, general	200	214	194	203	-	-	6	11	-	-
Anthropology	72	118	41	91	-	-	21	12	10	15
Archaeology	3	15	1	9	-	-	-	2	2	4
Economics	1 080	547	1 023	531	-	-	35	9	22	7
History	607	394	511	331	-	-	75	45	21	18
Geography	139	41	116	33	-	-	20	7	3	1
Political science and government	998	559	954	542	-	-	35	11	9	6
Sociology	230	579	205	545	-	-	16	22	9	12
Criminology	120	72	95	70	-	-	25	2	-	-
International relations	76	71	66	63	-	-	8	6	2	2

TABLE 5

BACHELOR'S AND HIGHER DEGREES CONFERRED BY LEVEL OF PROGRAM AND SEX
BY MAJOR FIELD OF STUDY, 1981-82--Concluded

	Total Degrees		Bachelor's Degrees		First-Professional Degrees		Master's Degrees		Doctor's Degrees	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
SOCIAL SCIENCES--Concluded										
Afro-American studies	3	2	3	2	-	-	-	-	-	-
Urban studies	56	51	55	49	-	-	1	2	-	-
Demography	18	4	-	1	-	-	12	1	6	2
Social welfare	17	89	17	88	-	-	-	1	-	-
Sociology/anthropology	25	64	20	64	-	-	5	-	-	-
Rural sociology	3	1	-	-	-	-	2	1	1	-
Jewish cultural studies	1	1	1	1	-	-	-	-	-	-
History/sociology of science	22	14	7	3	-	-	11	10	4	1
Ancient history	19	1	4	-	-	-	6	1	9	-
Social relations	8	30	8	30	-	-	-	-	-	-
Regional science	3	5	-	-	-	-	-	4	3	1
Pre-law degree program	21	9	21	9	-	-	-	-	-	-
THEOLOGY--Total	651	267	184	136	312	62	108	69	47	-
Theological professions, general	557	103	109	26	312	62	89	15	47	-
Religious music	8	7	8	7	-	-	-	-	-	-
Religious education	86	157	67	103	-	-	19	54	-	-
INTERDISCIPLINARY STUDIES--Total	807	812	695	747	-	-	102	61	10	4
General liberal arts and sciences	371	448	330	412	-	-	37	32	4	4
Biological and physical sciences (general science)	188	79	185	78	-	-	3	1	-	-
Humanities and social sciences	49	36	38	32	-	-	9	4	2	-
Engineering and other disciplines	8	2	8	2	-	-	-	-	-	-
Humanities	25	41	21	34	-	-	4	7	-	-
Behavioral sciences	3	26	3	26	-	-	-	-	-	-
Environmental studies	85	46	81	42	-	-	4	4	-	-
Medieval studies	3	2	2	2	-	-	-	-	1	-
Accounting/mathematics	-	1	-	1	-	-	-	-	-	-
Theatre/dramatic literature	1	-	1	-	-	-	-	-	-	-
Psycho-biology	3	10	3	10	-	-	-	-	-	-
Environmental pollution control	13	-	-	-	-	-	13	-	-	-
Bachelor of philosophy program	3	-	3	-	-	-	-	-	-	-
Public/health/administration	23	7	-	-	-	-	23	7	-	-
Human services	25	100	20	94	-	-	5	6	-	-
Physics mathematics	-	9	-	9	-	-	-	-	-	-
Acoustics	7	-	-	-	-	-	4	-	3	-
Psychology/business	-	5	-	5	-	-	-	-	-	-

TABLE 6

ASSOCIATE DEGREES AND OTHER FORMAL AWARDS BASED ON LESS THAN FOUR YEARS OF WORK BY LEVEL OF PROGRAM AND SEX BY PROGRAM, 1981-82

	CURRICULUMS OF 2 OR MORE YEARS, BUT LESS THAN 4 YEARS				CURRICULUMS OF AT LEAST 1 YEAR, BUT LESS THAN 2 YEARS	
	Work Wholly or Chiefly Creditable Toward a Bachelor's Degree					
	Associate Degrees		Other Formal Recognition (without associate degrees)			
	Men	Women	Men	Women	Men	Women
TOTAL DEGREES, ALL FIELDS	8 986	10 264	2 970	684	2 649	1 740
ARTS AND SCIENCES OR GENERAL PROGRAMS--Total	1 570	1 910	11	12	5	5
BUSINESS AND COMMERCE TECHNOLOGIES--Total	1 746	4 182	2 405	349	251	370
Business and commerce, general	491	672	-	2	3	15
Accounting	250	578	2	1	3	7
Banking and finance	13	11	2	-	1	2
Marketing, distribution, purchasing, business, and industrial management	342	411	2 396	326	66	11
Secretarial	2	1 544	-	4	1	85
Personal service	1	22	-	-	98	91
Photography	122	82	-	-	37	23
Communications and broadcasting	46	29	-	-	3	6
Printing and lithography	12	2	3	-	-	-
Hotel and restaurant management	79	54	-	-	-	3
Transportation and public utility	7	-	-	-	3	1
Applied arts, graphic arts, and fine arts	320	388	2	2	35	68
Travel	4	64	-	-	-	-
Court/convention reporting	-	32	-	9	-	-
Legal assistant	10	53	-	-	1	6
Apparel management	3	33	-	-	-	-
Clerical assistant	-	-	-	-	-	52
Accounting finance	2	9	-	-	-	-
Fashion illustration/design	3	34	-	-	-	-
Visual communications	3	-	-	-	-	-
Retailing	36	164	-	5	-	-
DATA PROCESSING TECHNOLOGIES--Total	1 150	801	7	1	17	53
Data processing, general	292	378	7	1	5	20
Keypunch operator and other input preparation	-	-	-	-	-	15
Computer programmer	204	222	-	-	3	1
Computer operator and peripheral equipment operation	9	2	-	-	9	17
Data processing equipment maintenance	4	-	-	-	-	-
Computer programming and systems management	166	127	-	-	-	-
Executive data management	48	46	-	-	-	-
Electronic and computer	411	14	-	-	-	-
Computer systems and management science	16	12	-	-	-	-
HEALTH SERVICES AND PARAMEDICAL TECHNOLOGIES--Total	261	2 339	57	288	35	590
Health services assistant, general	-	28	-	9	2	16
Dental assistant	-	56	-	-	-	93
Dental hygiene	-	132	34	86	-	-
Dental laboratory	11	12	-	-	-	-
Medical or biological laboratory assistant	21	204	4	25	-	-
Animal laboratory assistant	2	89	-	-	-	-
Radiologic	24	130	-	-	3	22
Nursing, R.N.	90	1 148	2	36	-	6
Nursing, practical	-	-	1	63	8	293
Occupational therapy	3	58	2	14	-	-
Surgical	-	-	-	11	-	16
Optical	12	13	-	-	-	-
Medical record	-	34	-	-	-	4
Medical assistant and medical office assistant	14	208	-	23	1	67
Inhalation therapy	30	63	10	16	7	18
Psychiatric	11	60	-	-	-	8
Electro diagnostic	-	-	-	-	4	-
Physical therapy	2	46	1	3	8	18
Dietetic	-	25	1	2	2	19
Cardiovascular	5	6	-	-	-	-
Physician assistant	14	9	-	-	-	-
Nuclear medical	5	8	2	-	-	10
Occupational safety and health education	1	-	-	-	-	-
Emergency medical	6	6	-	-	-	-
Mortuary science	10	4	-	-	-	-
MECHANICAL AND ENGINEERING TECHNOLOGIES--Total	3 766	361	470	15	665	35
Mechanical and engineering, general	332	41	13	2	2	-
Aeronautical and aviation	332	9	36	1	-	-
Engineering graphics	161	26	7	1	21	1
Architectural drafting	152	45	2	-	1	1
Chemical	29	19	-	1	-	-
Automotive	300	4	43	-	210	2
Diesel	5	-	35	-	21	1

TABLE 6

ASSOCIATE DEGREES AND OTHER FORMAL AWARDS BASED ON LESS THAN FOUR YEARS OF WORK BY LEVEL OF PROGRAM AND SEX BY PROGRAM, 1981-82--Concluded

	CURRICULUMS OF 2 OR MORE YEARS, BUT LESS THAN 4 YEARS				CURRICULUMS OF AT LEAST 1 YEAR, BUT LESS THAN 2 YEARS	
	Work Wholly or Chiefly Creditable Toward a Bachelor's Degree					
	Associate Degrees		Other Formal Recognition (without associate degrees)			
	Men	Women	Men	Women	Men	Women
MECHANICAL AND ENGINEERING TECHNOLOGIES--Concluded						
Welding	22	1	40	-	70	3
Civil	91	9	2	1	-	-
Electronics and machine	573	31	1	-	75	11
Electromechanical	62	1	-	-	-	-
Industrial	100	22	-	-	12	-
Instrumentation	2	-	-	-	-	-
Mechanical	112	8	43	2	4	-
Nuclear	15	3	-	-	-	-
Construction and building	319	15	179	3	245	16
Drafting	320	72	2	-	-	-
Refrigeration	89	1	3	-	-	-
Heavy equipment	-	-	42	1	-	-
Auto body repairman	11	-	1	-	-	-
Electrical engineering	667	46	21	3	-	-
Electric power	22	-	-	-	-	-
Manufacturing engineering	3	-	-	-	-	-
Computer engineering	3	1	-	-	-	-
Piano tuner	-	-	-	-	4	-
Structural design	8	3	-	-	-	-
Biomedical equipment	36	4	-	-	-	-
NATURAL SCIENCE TECHNOLOGIES--Total	221	123	-	-	1 541	634
Natural science, general	-	3	-	-	-	-
Agriculture	50	47	-	-	1 163	462
Forestry and wildlife	82	15	-	-	57	5
Food services	60	32	-	-	69	11
Home economics	-	-	-	-	17	138
Laboratory, general	2	1	-	-	-	-
Sanitation and public health inspection	5	3	-	-	1	-
Environmental, general	10	5	-	-	-	-
Interior design	12	17	-	-	-	-
Homelawns	-	-	-	-	47	8
Pest control	-	-	-	-	155	10
Turf grass management	-	-	-	-	32	-
PUBLIC SERVICE RELATED TECHNOLOGIES--Total	272	548	20	19	135	53
Public service, general	16	10	-	-	-	-
Bible study/religion related occupations	1	3	17	13	23	16
Education	3	188	-	-	-	-
Library assistant	-	4	-	-	-	6
Police, law enforcement, and corrections	183	139	2	-	51	6
Recreation and social work related	15	76	-	-	-	1
Fire control	41	1	-	-	5	1
Public administration and management	1	3	-	-	31	7
Child development	4	80	1	6	-	5
Social service	3	44	-	-	1	1
Developing leadership potential	-	-	-	-	9	6
Campground development	-	-	-	-	6	2
Labor studies	5	-	-	-	9	2

GLOSSARY

ASSOCIATE DEGREE--A degree based on at least two, but less than four years of college work.

BACHELOR'S DEGREE--A degree requiring four or five years of college work.

DOCTOR'S DEGREE--A degree normally based on at least three years of graduate work beyond the bachelor's degree, usually granted as a Ph.D. in any field or, Doctor of Education, Doctor of Juridical Science, Doctor of Public Health, etc.

FIRST-PROFESSIONAL DEGREE--A degree based on at least six years of college work, usually granted in Dentistry, Law, Medicine, Theology, etc. It signifies completion of the academic requirements to begin practice in the profession.

MASTER'S DEGREE--A degree customarily based on at least one year of graduate work beyond the bachelor's degree.

ORGANIZED OCCUPATIONAL CURRICULUM--A curriculum of at least one, but less than four years, designed to prepare high school graduates for immediate employment in a specific occupation. It leads to formal recognition, usually in the form of a certificate, diploma, associate degree, etc.

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